

SOV/138-58-10-6/10

AUTHORS: Gul', V.Ye.; Vil'nits, S. A; Gel'perin, N. I; Il'in, N.S; Kaplunov, Ya. N; Tsarskiy, L. N. and Krasikova, G. Z.

TITLE: Investigation of the Possibility of Pulverizing Chilled Rubber (Razrabotka sposoba izmel'cheniya okhlazhdennykh rezin)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 10, pp 22 - 28 (USSR)

ABSTRACT: Much rubber scrap is not re-used because of the difficulty of pulverizing the material. This difficulty can be overcome by chilling the rubber. The authors first review the changes in physical and mechanical properties of rubber at low temperature. Fig.1 shows maximum speed of rupture (mm/sec) against temperature for a vulcanized mixture of SKB and natural rubber. Fig.2 shows the same for SKB (Butyl) rubber. Each figure shows curves for three different rates of deformation. The maximum speed of rupture is that which occurs immediately before the specimen parts. The re-orientation of material at the point where rupture commences was studied by scribing a line across the specimens, and comparing the thickness of the line where rupture commences with the thickness of the line in the unruptured part of the stretched specimen. In Fig.4 these relative thicknesses are plot-

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ted against time for specimens of SKB and natural rubber at four different temperatures. The specimens were deformed at a rate of 500 mm/min. At -53°C no re-orientation at the rupture point occurs. Fig.5 shows stress versus relative elongation for the same rubber mix at different temperatures. Fig.6a shows the relative elongation versus temperature, and Fig.6b the stress versus temperature at the moment of rupture, in each case for three different rates of deformation. In Fig.7 the work of deformation (kg/cm^3) is plotted against temperature for SKB-50 and the same in Fig.8 for SKB-50 plus natural rubber. By comparing Figs. 2, 6 and 7 one sees that the temperature for maximum work of deformation to rupture corresponds to that for minimum speed of rupture and for maximum relative elongation at rupture. At low temperatures the low mobility of the molecular structure prevents re-orientation at the point of rupture as is seen in Fig.4; the resistance to rupture and relative elongation decrease and the speed of rupture increases. Fig.9 shows stress versus relative elongation for samples of rubber and fabric, cut from a tyre casing, at three different rates of deformation for four temperatures. These follow

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base of the mill was subjected to sieve analysis. Energy input was measured by a recording wattmeter. Table 1 shows results with this pulverizer for various rubber and rubber fabric materials. The size of the openings in the discharge grating was either 5 mm or 2 mm. Material was cooled to temperatures of -66° , -60° and -50°C . Time and k.w.h. to pulverize 400 gramme quantities of material are given, and the specific energy requirement in k.w.h. per metric ton of material is given in the last column. Table 2 gives the sieve analysis for the various samples for 5 mm and for 2 mm openings in the discharge grating. To complete the calculation for energy requirements, the power in k.w.h. required to cool one ton of material to temperatures between 5°C and -55°C are given. These calculations are based on an initial temperature of 20°C ., specific heat of material 0.5 c.cal/kg $^{\circ}\text{C}$, and 59.5% cooling efficiency from a Freon 12-refrigeration circuit as

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the same form as the plain rubber specimens in Fig.5. In order to obtain a brittle state when pulverizing rubber and fabric materials the temperature must be lowered and the speed of pulverization or rupture must be increased. The apparatus shown in Fig.10 was constructed to determine optimum speed of deformation for pulverization. Specimens 10 - 20 mm wide and 1 - 6 mm thick are clamped to the periphery of a 200 mm disc which can be rotated at various speeds. The disc runs in an insulated tank. The specimens strike against a pin mounted on a spring, so that the force acting on the pin can be measured dynamometrically, and the energy of deformation in fracturing the specimens can be calculated. Optimum speed was found to be in the region of 3000 r.p.m. From the parameters established, the hammer-mill type of pulverizer, shown in Fig.11, was constructed. The gap between the hammers and the saw-toothed periphery of the mill casing is 1.5 - 2 mm. The mill runs at 3000 r.p.m. The mill is fed with pieces of rubber about 40 x 20 x 8 mm previously cooled in a dry ice and alcohol mixture. Pulverized material discharged through the grating at the

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in Fig.12 with a further 20% loss to air allowed for.
There are 12 Figures, 2 Tables and 7 Soviet References

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii
im. M. V. Lomonosova (Moscow Institute of Precision
Chemical Technology imeni M.V. Lomonosov)

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69-20-3-10/24

AUTHORS: Gul', V.Ye.; Tsarskiy, L.N.; Vil'nits, S.A.

TITLE: The Process of Rupture in the Region of Transition From the Elastic to the Brittle State (Issledovaniye protsessa razryva v oblasti perekhoda ot elasticheskogo k khrupkomy sostoyaniyu)

PERIODICAL: Kolloidnyy zhurnal, 1958, vol XX, Nr 3, pp 318-325 (USSR)

ABSTRACT: The rupture of vulcanizates is a process lasting a certain time. In the article, experiments are mentioned in which this process has been studied by means of high-speed cinematography. More than 300 moving pictures were taken. The analysis of the pictures has shown that the speed of rupture in the temperature range from +22 to -57°C is very small in the initial stages and increases rapidly immediately before the complete rupture. At a temperature decrease from +22 to 0° the rupture speed decreases from 2,500 mm/sec to 100 mm/sec. This is due to an increase in the bonds of intermolecular interaction. At temperatures of -50°C and lower the rupture speed attains a value of 3,000 mm/sec. The temperature decrease is also accompanied by a decrease of the additional orientation of the material. At very low

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The Process of Rupture in the Region of Transition From the Elastic to the Brittle State

temperatures, the reduction of additional orientation becomes so large that the speed of rupture increases again. A correlation exists not only between the temperature and the speed of rupture, but also between temperature and mechanical properties of the rubber. At the transition from the high-elastic to the brittle rupture mechanism, an abnormal change in the resistance to rupture is observed, together with a change in temperature. In the temperature regions characterized by the elastic and brittle rupture mechanisms, an increase in the stability of the material is observed. At the transition from the elastic to the brittle rupture, the stability of the material is reduced as a consequence of changes in the structural characteristics of the material. There are 11 graphs and 8 references, 7 of which are Soviet and 1 German.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii, Moskva
(Moscow Institute of Fine Chemical Technology, Moscow)

SUBMITTED: May 3, 1957
Card 2/2

1. Vulcanizates--Transition 2. Vulcanizates--Rupture

GUL', V.Ye.; VIL'NITS, S.A.; GEL'PERIN, N.I.; IL'IN, N.S.; KAPLUNOV, Ya.N.;
TSARSKIY, L.N.; KRASIKOVA, G.Z.

Developing a method of grinding cold rubbers. Kauch. i rez. 17
no.10:22-28 0 '58. (MIRA 11:10)

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Lomonosova.

(Rubber, Reclaimed)

GUL', V.Ye.; TSARSKIY, L.N.; VIL'NITS, S.A.

Rupture during transition from the elastic to the brittle state
[with summary in English]. Koll. zhur. 20 no.3:318-325 '58.
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TSARSKI, Petur, inzh

Color-changing indicators of temperature. Elektroenergiia 12
no.11/12:47-49 M-D '61.

LIPATOV, I. (g.Gor'kiy); TSARSKIY, S. (g.Gor'kiy)

A fulfilled plan does not cover up for carelessness. Okhr.
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(MIRA 13:6)

(Gorkiy Province--Lumbering--Safety measures)

KOPIT, B.S.; MIKHAYLOV, A.V.; CHLENOV, A.F.; IDOV, P.I.; YUKHNOV, I.I.;
TSARSKIY, S.V.; BARANOV, V.A.; PETROV, A.I.; LIPSHITS, L.Z.;
ABATUROV, K.I.; SOKOL'SKAYA, Zh.M.; MEZHEVICH, V.N.; DEDYDOV,
L.I.; VLASIKHIN, A.V.; CHEKALOV, L.N.; STARICHKOV, T.I.;
KHUBLAROV, A.Ye., red.; PITERMAN, Ye.L., red.izd-va; PARAKHINA,
N.L., tekhn.red.

[Our beacons; collection of articles on progressive workers in
lumber, paper, woodworking industries and forestry] Nashi maiaki;
sbornik ocherkov o peredovykh lyudiakh lesnoi, bumazhnoi i derevo-
obrabatyvaiushchei promyshlennosti i lesnogo khoziaistva. Moskva,
Goslesbumizdat, 1961. 125 p. (MIRA 15:2)
(Forests and forestry) (Wood-using industries)

L 24544-66 EWT(1)

ACC NR: AP6006328

SOURCE CODE: UR/0413/66/000/002/0050/0050

AUTHORS: Aloshinskiy, V. G.; Tsarevskiy, Yu. I.

52
B

ORG: none

TITLE: A method for improving the commutation of direct current electrical machines. Class 21, No. 177961

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 50

TOPIC TAGS: electric motor, magnetic core, direct current, electric shunt

ABSTRACT: This Author Certificate presents a method for improving the commutation of direct current electrical machines (mainly machines with strong regulation of the excitation of the main poles). The method is based on varying the flux of the commutating poles in the air gap as a function of the flux of the main poles. To increase the effectiveness of the method, the flux of the commutating poles is regulated by magnetic shunts. These shunts connect the cores of the main fluxes and the commutating fluxes. Each core of the commutating poles is connected by magnetic shunts to the cores of the two neighboring main poles. Each core of the commutating poles is also connected by magnetic shunts to the core of the main pole of the same polarity.

Card 1/1 SUB CODE: 09/ SUBM DATE: 18Dec63

UDC: 621.313.2.013.4

2

TSARUK, P.A.

Intra-arterial blood infusion in a district hospital. Zdrav.
Kazakh. 22 no.5:21-23 '62. (MIRA 15:6)

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(BLOOD—TRANSFUSION)

TSARVULANOVA, Ida, inzh.

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1. Direktor na DIP "Ernat Telman", Sofia.

TSARYAPKIN, N.

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KASATKIN, B.S.; TSARYUK, A.K.; MUSIYACHENKO, V.F.

Fluxes for the mechanized welding of 12Kh1MF heat-resistant steel. Avtom. svar. 16 no.8:26-33 Ag '63. (MIRA 16:8)

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(Steel. Heat-resistant-Welding)
(Flux (Metallurgy))

"APPROVED FOR RELEASE: 03/14/2001

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L 41055-05

ACCESSION NR: AP5005609

... and also on welding conditions. Under identical welding

Electric Welding, AN CAROSA,

SUB CODE: MM

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Determination of the proteolytic activity of brain homogenates. Ukr.
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1. Institut biokhimii AN UkrSSR, Kiyev.

POLYAKOVA, N.M.; BELIK, Ya.V. [Bielik, IA.V.]; TSARYUK, L.A.

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nervous system and different structural elements of brain cells.
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Cand Med Sci - (diss) "Measurement by infra-red radiation of sweating in children ill with pneumonia and nephritis." Kiev, 1961. 16 pp; (Kiev Order of Labor Red Banner Medical Institute Academician A. A. Bogomol'ts); 280 copies; price not given; (KL, 5-61 sup, 207)

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Regulation of radiant heat emission and diaphoresis in children
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TSARYEVA, M. I.

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2. USSR (600)
4. Physical Geography - Gobi
7. Geographical location and concept of the Gobi Desert. Izv. Vses. geog. ob-va
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Jan/Feb 49

USSR/Medicine - Botany
Geography
Surveying

"Organization of a Geobotanical Survey of Grass-lands, Using Automobiles," I. A. Tsatssenkin, 5 pp

"Byul Mosk Obschch Ispy Prirod, Otdel Biolog"
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Enumerates problems in surveying vast land ex-
panses, in connection with several million
hectares of land which must be reconditioned in
next few years. Used automobile transport of
surveying Gobi Desert and "black earth" of

41/49T48

Jan/Feb 49

USSR/Medicine - Botany (Contd)

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41/49T48

TSATSSENKIN, I. A.

Botany-Geographical Distribution

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I. A. TSatsenkin. Bot. Zhur. 37 No. 3, 1952

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Botany - Geographical Distribution; Pastures;
Meadows

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Ekologicheskaya otsenka kormovykh ugodii po rastitel'nomu pokrovu.
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(Pastures and meadows)

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Field methods in making general physicogeographical maps. Nauk. zap.
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VYSOTSKIY, A.A., kand.sel'skokhoz.nauk; KONYUSHKOV, N.S., kand.sel'skokhoz.nauk; MOVSISIYANTS, A.P., kand.sel'skokhoz.nauk; TSATSENKIN, I.A., prof.; ANTONOVA, M.M., red.; DEYEVA, V.M., tekhn.red.

[Improvement and utilization of natural grasslands] Uluchshenie i ispol'zovanie prirodnnykh kormovykh ugodii. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1961. 143 p.
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7. Agricultural climatology. Ezv. Vses. geog. obshch. 84, No. 5, 1952.
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Meteorological Abst.
Vol. 5 No. 1
Jan. 1954
Part 1
Climatology and
Bioclimatology

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Ramsenskii, L. G., TSatsenkin, P. A. and Rabatnov, T. A. *K voprosu o sel'skokhoziaistvennoi klimatologii*. [On the problem of agricultural climatology.] *Vopr. nauch. Geograficheskoe Obshchestvo, S.S.S.R., Izvestia*, 81(5):501-502, Sept./Oct. 1952. DLC—A more intensive investigation of climate in relation to agriculture is proposed. The topics requiring special study are: the effect of radiation, of the atmosphere and of the aqueous and soil environment upon plant growth and development; the relationship of the individual climatic variables and their geographic distribution to agricultural regions; the microclimates of localities; changes in weather and forecasting possibilities; crop yield forecasting and climatic amelioration. In addition, all the indicators used by agricultural climatology should be biologically and ecologically based, and be completely independent of calendar dates. *Subject Heading: 1. Agricultural climatology.—I.L.D.*

Subject : USSR/Electronics AID P - 4942
Card 1/1 Pub. 89 - 9/18
Author : Tsatsenkin, V.
Title : Amplifier with two feedbacks
Periodical : Radio, 8, 33, Ag 1956
Abstract : The author explains the use of amplifiers with positive feedback which permits obtaining higher amplification factors than possible with amplifiers with negative feedback. Four connection diagrams and charts.
Institution : None
Submitted : No date

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(Ural Mountain region--Paleogeography)

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TSATSKIN, Vitaliy Semenovich; SHAPOSHNIKOV, Kirill Aleksandrovich;
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ACC NR: AP7010725

SOURCE CODE: UR/0138/66/000/010/0002/0004

AUTHOR: Filinov, G. P.; Titov, A. P.; Sukhomlinov, V. B.; Tsaylingol'd, V. L.;
Oladov, B. N.; Shikhalova, K. P.

ORG: Voronezh Branch, All-Union Scientific Research Institute of Synthetic
Rubber im. S. V. Lebedev (Voronezhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta sinteticheskogo kauchuka); Scientific Research Institute of Monomers for
Synthetic Rubber (Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo
kauchuka)

TITLE: Cold-resistant butadiene-methylstyrene rubber with low ash content

SOURCE: Kauchuk i rezina, no. 10, 1966, 2-4

TOPIC TAGS: butadiene styrene resin, potassium compound, fluid viscosity /
SKMS-10RPD rubber

SUB CODE: 11

ABSTRACT: The effect of additives of potassium caseinate and bone cement on the
viscosity and coagulation of latex and also on the ash content and properties of
the rubber SKMS-10RP was investigated. Laboratory results were checked in a pilot
plant. The latex was obtained according to a formulation adopted for high-
temperature copolymerization of butadiene with alpha-methylstyrene. Latex was

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UDC: 678.762.2-134.622:536.485

0230

2732

ACC NR: AP7010725

coagulated without using sodium chloride.

It was found that addition of potassium caseinate markedly raises the latex viscosity. Bone cement, in contrast, only slightly raised the latex viscosity. Raising the temperature from 10 to 50° C reduces the viscosity of latex containing the additives by 50-100%. Results of chemical analysis show that separation of the rubber SKMS-10RPD with low ash content without use of sodium chloride solutions reduces its total ash content by 300-400% and its content of water-soluble ash by approximately 1900%. The avoidance of sodium chloride gives purer rubber and higher dielectric properties. Orig. art. has: 5 figures and 2 tables. [JRS: 40,351]

Card 2/2

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TSATSENKIN, I.A.

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1. Vsesoyuznyy institut kormov, Moskva.
(Volga Valley--Alluvial lands) (Volga Valley--Botany, Economic)

KONYUSHKOV, M.S., kandidat sel'skokhozyaystvennykh nauk; MOVSISIYANTS, A.P., kandidat sel'skokhozyaystvennykh nauk; YELSUKOV, M.P., kandidat sel'skokhozyaystvennykh nauk, redaktor; YEREMIN, G.P., kandidat sel'skokhozyaystvennykh nauk, redaktor; SMELOV, S.P., doktor biologicheskikh nauk, professor; TSATSENKIN, I.A., doktor biologicheskikh nauk, professor; MOROZOV, D.N., redaktor; HALLOD, A.I., tekhnicheskii redaktor

[Meadow and pasture manual] Spravochnik po senokosam i pastbishcham. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 703 p. (MLRA 9:11)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov. (Pastures and meadows)

TSAPSEKH, I. A.

35356. O vvedenii agrometeorologicheskoy sluzhby na pastbishchakh v rayonakh otgonnogo zhivotnodstva. Sov. zootekhnika, 1949, No. 7, s. 61-67

SO: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

TRASHENIN, I. A.

35356 O Vvedii Agrometeorologicheskoy Sluzhby Na Past ishchakh V Rayonakh Otkrytogo Zhivotnodstva. Sov. Zootekhnika, 1949, No. 7, S. 61-67

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TSATSSENKIN, V.

USSR/Electronics - Transmitters

Jan 52

"A Club Short-Wave Transmitter," V. Tsatsenkin

"Radio" No 1, pp 26-31

This transmitter is designed for telegraph and telephone operation in the 10-, 14-, 20-, and 160-m bands and has an erp of 150 w in normal operation. A group of operators of the Stalino Oblast Radio Club sta, using this transmitter, won first place in the 5th All-Union Competitions of Radio Amateur Short-Wave Enthusiasts.

239T53

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(Amplifiers, Electron-tube)

TSATSENKIN, V.

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(MIRA 10:7)

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TSATSENKIN, V.K., kand. tekhn. nauk

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1. Moskovskiy energeticheskiy institut.

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